

SEQUENCE LISTING

<110> Salceda, Susana
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<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

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<150> 60/268,289

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 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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 <212> DNA
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 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

 <220>
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 <222> (225)..(225)
 <223> a, c, g or t

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703

<210> 26
 <211> 811
 <212> DNA
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<220>
 <221> misc_feature
 <222> (333)..(333)
 <223> a, c, g or t

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<210> 27
 <211> 652
 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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 <211> 337
 <212> DNA
 <213> Homo sapien

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 <211> 954
 <212> DNA
 <213> Homo sapien

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 aagcgggagc aaagtgcgt caagaaagtt cctaaagggtg ttcccctgca gtttgacata 840
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<210> 31
 <211> 260
 <212> DNA
 <213> Homo sapien

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 attaattaaa aagactttta gacaacctct taaatggaat tacactatgg aaaacagggc 180
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 aaatgaaaaa taaatataaa 260

<210> 32
 <211> 1416
 <212> DNA
 <213> Homo sapien

<400> 32
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<210> 33
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<212> DNA
<213> Homo sapien

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gctaaactaa aagtaaattg aagaaaccaa gtctagtagg ttttttcttt tttaggtggg 180
ggtagggatgg gggaggttag ttacacttaa aatatcttct ccagagactg tatgctccta 240
tactagactg taagctcttt gagggcagtc tgtcagattt atctttgtat cttccccagc 300
gg 302

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<210> 34
<211> 1344
<212> DNA
<213> Homo sapien

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<400> 34
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aaaaccatga gctgtgaaca tggtagcaaa caagcatata ttcatttcaa aactttcctt 180
gcttttagca gagagaagcc tgtatatgtt acatgtgtga ctttcagtag tttaaagaga 240

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25

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cctttttaaa tttttttatt ttttctgaga cggagatctg ctcttacgcc caggctagag	420
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gcctcagcct ccggagtagc tgggattaca ggcgcccgcc accacgtccg gctaattttt	540
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<210> 35
 <211> 163
 <212> DNA
 <213> Homo sapien

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gccatagcca agtgatttta agtatgttat agaatatatt tga	163

<210> 36
 <211> 643
 <212> DNA
 <213> Homo sapien

<400> 36	
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<211> 478
<212> DNA
<213> Homo sapien
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<210> 38
<211> 833
<212> DNA
<213> Homo sapien
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[illegible]

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<210> 39
<211> 718
<212> DNA
<213> Homo sapien

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<210> 40
<211> 1439
<212> DNA
<213> Homo sapien

<400> 40
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<210> 41
<211> 298
<212> DNA
<213> Homo sapien

<400> 41
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<210> 42
 <211> 2023
 <212> DNA
 <213> Homo sapien

<400> 42
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<210> 43
 <211> 667
 <212> DNA
 <213> Homo sapien

<400> 43
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<210> 44
 <211> 495
 <212> DNA
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<220>

<221> misc_feature
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 <223> a, c, g or t

<220>
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<210> 45
 <211> 651
 <212> DNA
 <213> Homo sapien

<400> 45
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 <212> DNA
 <213> Homo sapien

<400> 46
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<210> 47
 <211> 213
 <212> DNA
 <213> Homo sapien

<400> 47
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 agttaggggg aagacgggat ggggaataaa ccctcggaaa tctctgcaca ccactcttgg 180
 tgctatgctt ttaattctgt ttccctttct cct 213

<210> 48
 <211> 658
 <212> DNA
 <213> Homo sapien

<400> 48
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 <223> a, c, g or t

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 <213> Homo sapien

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<213> Homo sapien

<400> 51

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<210> 52

<211> 1042

<212> DNA

<213> Homo sapien

<400> 52

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 <223> a, c, g or t

<400> 53
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 <211> 1590
 <212> DNA
 <213> Homo sapien

<400> 54
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 <213> Homo sapien

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<211> 461
<212> DNA
<213> Homo sapien

<400> 57
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<210> 58
 <211> 1032
 <212> DNA
 <213> Homo sapien

<400> 58
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<210> 59
 <211> 725
 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

<400> 61
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 <213> Homo sapien

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 <213> Homo sapien

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<400> 66

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Asp Ile Lys Ser Tyr Lys Asp Phe Arg Phe Ser Phe Thr Lys Lys Val
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Ile His Ile Leu His Tyr Thr Arg Tyr Asp Ile Asn Thr Gly Lys Tyr
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Tyr Val His Cys Lys Glu Lys Gly Lys Ile Glu Thr Tyr
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<210> 67
<211> 59
<212> PRT
<213> Homo sapien

<400> 67

Met Gly Lys Lys Ala His Arg His Leu Gln Phe Thr Ser Phe Lys Phe
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Leu Lys Lys Thr Pro Gln Lys Lys Pro Phe Leu Pro Gly Lys Ala His
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Glu Ile Asn Tyr Arg Ile Glu Leu Tyr Asn Ser Thr Ser Thr Ser Leu
35 40 45

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49

Thr Leu Met Cys Phe Ala Lys Asn Leu Glu Lys
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<210> 68
<211> 59
<212> PRT
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<400> 68

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Gly Arg Phe Lys Ser Glu Lys Lys Lys Lys Lys Lys Lys Ser Ala
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Gly Gly Thr Ser Gly Pro Lys Gly Ser Arg Gly Glu Leu Val Ser Arg
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Pro Lys Phe Pro Pro Asn Phe Pro Pro Lys Gly
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<210> 69
<211> 55
<212> PRT
<213> Homo sapien

<400> 69

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Lys Thr Asn Lys Arg Lys Glu Asn Val Ala Arg Ile Leu Val Ser Leu
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Val Ala Pro Ser Gly
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<400> 71

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Arg Lys Pro Thr Arg Arg Ser Gly Thr Glu Glu
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<210> 72
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 <212> PRT
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<400> 72

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 35 40 45

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<210> 73
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<400> 73

Met Lys Gln Arg Ile Ser Lys Glu Thr Thr Lys Asp Ile Gly Asn Ser
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Cys Val Pro Gly Gln Cys Arg Gly Glu Met
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<210> 74
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<400> 74

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35 40 45

Ser Ser Arg Trp Leu Thr Val Val Gly Ala Ala Val Val Ala Val Val
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Ala Ala Asp Ser Gly Phe Ser Ile Arg Gly Phe Ile Ile Ser Arg Thr
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Leu Ser Gly Tyr His
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<210> 75

<211> 72

<212> PRT

<213> Homo sapien

<400> 75

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Gly Pro Lys Cys Phe Leu Thr Met
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<210> 76

<211> 93

<212> PRT

<213> Homo sapien

<400> 76

Met Ser Leu Cys Cys Asp Gly Pro Phe Pro Ser Leu Phe Gly Tyr Pro
1 5 10 15

Pro Leu Thr Ile Leu Ile His Val Leu Phe Gln Lys Val Ser Pro Ile
20 25 30

Lys Trp His Leu Gly Thr Thr Met Ala Gly Ile Ala Leu Ala Met Asn

35

40

45

Ser Thr Val Val Thr Leu Ser His Ser Arg Ala Val His Phe Ile Met
50 55 60

Asn Asp Leu Arg Ile Ser Pro Gly Lys Ser Pro Arg Gln Ala Leu Pro
65 70 75 80

Leu Leu Leu Ala Leu Gln Cys Glu Val Ser Trp Glu Arg
85 90

<210> 77

<211> 500

<212> PRT

<213> Homo sapien

<400> 77

Met Lys Cys Thr Ala Arg Glu Trp Leu Arg Val Thr Thr Val Leu Phe
1 5 10 15

Met Ala Arg Ala Ile Pro Ala Met Val Val Pro Asn Ala Thr Leu Leu
20 25 30

Glu Lys Leu Leu Glu Lys Tyr Met Asp Glu Asp Gly Glu Trp Trp Ile
35 40 45

Ala Lys Gln Arg Gly Lys Arg Ala Ile Thr Asp Asn Asp Met Gln Ser
50 55 60

Ile Leu Asp Leu His Asn Lys Leu Arg Ser Gln Val Tyr Pro Thr Ala
65 70 75 80

Ser Asn Met Glu Tyr Met Thr Trp Asp Val Glu Leu Glu Arg Ser Ala
85 90 95

Glu Ser Trp Ala Glu Ser Cys Leu Trp Glu His Gly Pro Ala Ser Leu
100 105 110

Leu Pro Ser Ile Gly Gln Asn Leu Gly Ala His Trp Gly Arg Tyr Arg
115 120 125

Pro Pro Thr Phe His Val Gln Ser Trp Tyr Asp Glu Val Lys Asp Phe
130 135 140

Ser Tyr Pro Tyr Glu His Glu Cys Asn Pro Tyr Cys Pro Phe Arg Cys

145				150				155				160			
Ser	Gly	Pro	Val	Cys	Thr	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	Thr	Ser
				165					170					175	
Asn	Arg	Ile	Gly	Cys	Ala	Ile	Asn	Leu	Cys	His	Asn	Met	Asn	Ile	Trp
			180					185					190		
Gly	Gln	Ile	Trp	Pro	Lys	Ala	Val	Tyr	Leu	Val	Cys	Asn	Tyr	Ser	Pro
		195					200					205			
Lys	Gly	Asn	Trp	Trp	Gly	His	Ala	Pro	Tyr	Lys	His	Gly	Arg	Pro	Cys
	210					215					220				
Ser	Ala	Cys	Pro	Pro	Ser	Phe	Gly	Gly	Gly	Cys	Arg	Glu	Asn	Leu	Cys
225					230					235					240
Tyr	Lys	Glu	Gly	Ser	Asp	Arg	Tyr	Tyr	Pro	Pro	Arg	Glu	Glu	Glu	Thr
				245					250					255	
Asn	Glu	Ile	Glu	Arg	Gln	Gln	Ser	Gln	Val	His	Asp	Thr	His	Val	Arg
			260					265					270		
Thr	Arg	Ser	Asp	Asp	Ser	Ser	Arg	Asn	Glu	Val	Ile	Ser	Ala	Gln	Gln
		275					280					285			
Met	Ser	Gln	Ile	Val	Ser	Cys	Glu	Val	Arg	Leu	Arg	Asp	Gln	Cys	Lys
	290					295					300				
Gly	Thr	Thr	Cys	Asn	Arg	Tyr	Glu	Cys	Pro	Ala	Gly	Cys	Leu	Asp	Ser
305					310					315					320
Lys	Ala	Lys	Val	Ile	Gly	Ser	Val	His	Tyr	Glu	Met	Gln	Ser	Ser	Ile
				325					330					335	
Cys	Arg	Ala	Ala	Ile	His	Tyr	Gly	Ile	Ile	Asp	Asn	Asp	Gly	Gly	Trp
			340					345					350		
Val	Asp	Ile	Thr	Arg	Gln	Gly	Arg	Lys	His	Tyr	Phe	Ile	Lys	Ser	Asn
		355					360					365			
Arg	Asn	Gly	Ile	Gln	Thr	Ile	Gly	Lys	Tyr	Gln	Ser	Ala	Asn	Ser	Phe
	370					375					380				

55

Thr Val Ser Lys Val Thr Val Gln Ala Val Thr Cys Glu Thr Thr Val
385 390 395 400

Glu Gln Leu Cys Pro Phe His Lys Pro Ala Ser His Cys Pro Arg Val
405 410 415

Tyr Cys Pro Arg Asn Cys Met Gln Ala Asn Pro His Tyr Ala Arg Val
420 425 430

Ile Gly Thr Arg Val Tyr Ser Asp Leu Ser Ser Ile Cys Arg Ala Ala
435 440 445

Val His Ala Gly Val Val Arg Asn His Gly Gly Tyr Val Asp Val Met
450 455 460

Pro Val Asp Lys Arg Lys Thr Tyr Ile Ala Ser Phe Gln Asn Gly Ile
465 470 475 480

Phe Ser Glu Ser Leu Gln Asn Pro Pro Gly Gly Lys Ala Phe Arg Val
485 490 495

Phe Ala Val Val
500

<210> 78
<211> 51
<212> PRT
<213> Homo sapien

<400> 78

Met Val Thr Thr Gln Asn Leu Arg Leu Thr Ile Val Glu Val Arg Gly
1 5 10 15

Gln Gly Ala Gly Arg Ala Gly Ser Phe Leu Ser Ser Ile Met Gly Ala
20 25 30

Ala Gly Arg Ile Gln Phe Leu Ala Gly Leu Gly Arg Arg Ser Pro Val
35 40 45

Pro Ala Ala
50

<210> 79
<211> 50
<212> PRT
<213> Homo sapien

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<400> 79

Met Val Phe Tyr Tyr Tyr Tyr Tyr Gly Phe Lys Lys Ser Asn Phe Ile
 1 5 10 15

Ser Phe Cys Lys Glu Leu Ser Asn Ile Leu Tyr Arg Phe Cys Glu Arg
 20 25 30

Thr Tyr Phe Leu Thr Val Ile Phe Ile Ser Phe Lys Ile Phe Val Ser
 35 40 45

His Leu
 50

<210> 80

<211> 229

<212> PRT

<213> Homo sapien

<400> 80

Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe Ser Ser Ser
 1 5 10 15

Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala Arg Ser Arg
 20 25 30

Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly Lys Thr Cys
 35 40 45

Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg Thr Glu Ala
 50 55 60

Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile Asp Gly Glu
 65 70 75 80

Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg
 85 90 95

Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala Val Val Phe
 100 105 110

Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu Pro Ser Trp
 115 120 125

Ile Glu Glu Cys Lys Gln His Leu Leu Ala Asn Asp Ile Pro Arg Ile

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130

135

140

Leu Val Gly Asn Lys Cys Asp Leu Arg Ser Ala Ile Gln Val Pro Thr
 145 150 155 160

Asp Leu Ala Gln Lys Phe Ala Asp Thr His Ser Met Pro Leu Phe Glu
 165 170 175

Thr Ser Ala Lys Asn Pro Asn Asp Asn Asp His Val Glu Ala Ile Phe
 180 185 190

Met Thr Leu Ala His Lys Leu Lys Ser His Lys Pro Leu Met Leu Ser
 195 200 205

Gln Pro Pro Asp Asn Gly Ile Ile Leu Lys Pro Glu Pro Lys Pro Ala
 210 215 220

Met Thr Cys Trp Cys
 225

<210> 81
 <211> 42
 <212> PRT
 <213> Homo sapien

<400> 81

Met Asn Val Phe Lys Ile Tyr Asn Arg Thr Gln Ser Gly Arg Val Phe
 1 5 10 15

Phe Gly Gly Arg Gly Leu Phe Ser Asn Ser Arg Trp His Ile Ser Gly
 20 25 30

Gln Gln Tyr Phe Leu Thr His Ser Asn Gln
 35 40

<210> 82
 <211> 56
 <212> PRT
 <213> Homo sapien

<400> 82

Met Tyr Leu Lys Glu Lys Tyr Pro Asp Leu Lys Pro Thr Ala Asp Val
 1 5 10 15

Ala Asn Phe His Thr Thr Ala Gly His Gly Ser Leu Leu Thr Thr His
 20 25 30

Cys His Leu Arg Leu Cys Leu Cys Phe Ile Gln Arg Glu Arg Gly Gly
 35 40 45

Leu Lys Gly Met Leu Pro Gly Gly
 50 55

<210> . 83
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 83

Met Leu Ser Pro Phe Leu Leu Ile Asn Asn Leu Tyr Tyr Lys Lys Lys
 1 5 10 15

Lys Lys Lys Lys Lys Arg Arg Gly Gly Asn Gln Gly Pro Ile Arg Gly
 20 25 30

Phe Pro Gly Gly Glu Trp Val Thr Arg Ser Gln Phe His Thr Phe Ala
 35 40 45

Arg Gln Gln Thr Gly Glu Glu Ala Gly Pro Arg Arg Glu Ala Arg Gln
 50 55 60

Glu Gln Ala His Arg Glu Thr Glu
 65 70

<210> 84
 <211> 27
 <212> PRT
 <213> Homo sapien

<400> 84

Met His Val Glu Arg Arg Ser Val Met Asp Ala Trp Ser Arg Arg Gly
 1 5 10 15

Ala Gly Lys Tyr Thr Asp Ile Lys Asp Gln Ile
 20 25

<210> 85
 <211> 292
 <212> PRT
 <213> Homo sapien

<400> 85

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Met 1	Asn	Arg	Phe	Gly 5	Thr	Arg	Leu	Val	Gly 10	Ala	Thr	Ala	Thr	Ser 15	Ser
Pro	Pro	Pro	Lys 20	Ala	Arg	Ser	Asn	Glu 25	Asn	Leu	Asp	Lys	Ile 30	Asp	Met
Ser	Leu	Asp 35	Asp	Ile	Ile	Lys	Leu 40	Asn	Arg	Lys	Glu	Gly 45	Lys	Lys	Gln
Asn	Phe 50	Pro	Arg	Leu	Asn	Arg 55	Arg	Leu	Leu	Gln	Gln 60	Ser	Gly	Ala	Gln
Gln 65	Phe	Arg	Met	Arg	Val 70	Arg	Trp	Gly	Ile	Gln 75	Gln	Asn	Ser	Gly	Phe 80
Gly	Lys	Thr	Ser	Leu 85	Asn	Arg	Arg	Gly	Arg 90	Val	Met	Pro	Gly	Lys 95	Arg
Arg	Pro	Asn	Gly 100	Val	Ile	Thr	Gly	Leu 105	Ala	Ala	Arg	Lys	Thr 110	Thr	Gly
Ile	Arg	Lys 115	Gly	Ile	Ser	Pro	Met 120	Asn	Arg	Pro	Pro	Leu 125	Ser	Asp	Lys
Asn	Ile 130	Glu	Gln	Tyr	Phe	Pro 135	Val	Leu	Lys	Arg	Lys 140	Ala	Asn	Leu	Leu
Arg 145	Gln	Asn	Glu	Gly	Gln 150	Arg	Lys	Pro	Val	Ala 155	Val	Leu	Lys	Arg	Pro 160
Ser	Gln	Leu	Ser	Arg 165	Lys	Asn	Asn	Ile	Pro 170	Ala	Asn	Phe	Thr	Arg 175	Ser
Gly	Asn	Lys	Leu 180	Asn	His	Gln	Lys	Asp 185	Thr	Arg	Gln	Ala	Thr 190	Phe	Leu
Phe	Arg	Arg 195	Gly	Leu	Lys	Val	Gln 200	Ala	Gln	Leu	Asn	Thr 205	Glu	Gln	Leu
Leu	Asp 210	Asp	Val	Val	Ala	Lys 215	Arg	Thr	Arg	Gln	Trp 220	Arg	Thr	Ser	Thr
Thr 225	Asn	Gly	Gly	Ile 230	Leu	Thr	Val	Ser	Ile	Asp 235	Asn	Pro	Gly	Ala	Val 240

His Met Phe Glu Asp Phe Ser Phe Pro Phe Ala Ile Phe Leu Phe Phe

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61

1		5						10					15	
Leu	Arg	Arg	Arg	Ser	Ala	Leu	Thr	Pro	Arg	Leu	Glu	Ala	Ser	Gly
			20					25					30	Ala
Ile	Leu	Ala	Tyr	Cys	Asn	Leu	His	Pro	Pro	Gly	Ser	Ser	Asp	Ser
		35					40					45		Pro
Ala	Ser	Ala	Ser	Gly	Val	Ala	Gly	Ile	Thr	Gly	Ala	Arg	His	His
		50					55				60			Val
Arg	Leu	Ile	Phe	Val	Phe	Ser	Val	Glu	Thr	Gly	Phe	Cys	Tyr	Val
65					70					75				80
Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp	Pro	Pro	Ala	Ser
				85					90					95
Ser	Gln	Ser	Val	Arg	Ile	Thr	Gly	Val	Ser	His	Arg	Ala	Arg	Leu
			100					105					110	Lys
Ile	Phe	Leu	Asn	Cys	Asn	Lys	Tyr	Ser	Ala	Phe	Phe	Glu	Ser	Leu
		115					120					125		Tyr
Leu														

<210> 89
 <211> 15
 <212> PRT
 <213> Homo sapien

<400> 89

Met	Ala	Thr	Leu	Ala	Gly	Tyr	Phe	Leu	Ala	Lys	Phe	Leu	Leu	Arg
1				5					10					15

<210> 90
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 <212> PRT
 <213> Homo sapien

<400> 90

Met	Lys	His	Gly	Ser	Phe	Tyr	Phe	Thr	Val	Ser	Asn	Leu	Ile	Ala
1				5					10					15

His	Leu	Lys	Ser	Ala	Lys	Ile	Glu	Leu	Pro	Lys	Lys	Cys	Tyr	Met
			20					25					30	Pro

Lys Gly Ala His Asn Tyr Leu Met Ala Lys Leu Ile Lys Leu Thr Ser
 35 40 45

Pro Lys Ser Asp Ser Arg Asp Leu Leu Cys Pro Ser Leu Trp Cys Phe
 50 55 60

Phe Ala Leu His Ile Cys Phe
 65 70

<210> 91
 <211> 35
 <212> PRT
 <213> Homo sapien

<400> 91

Met Leu Ala Arg Leu Leu Met Ile Lys Ser Leu Asp Pro His Thr
 1 5 10 15

Arg Phe Ala Met Val Thr Leu Ser Arg Thr Glu Ile Pro Leu Val Leu
 20 25 30

Tyr Lys Arg
 35

<210> 92
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 92

Met Phe Thr Ser Thr Thr Leu Asn Gln Leu Leu Ser Ile Leu Tyr Ile
 1 5 10 15

Phe Tyr Ser Ile Phe Phe Ser Asn Phe Leu His Phe Pro Met Ser Leu
 20 25 30

Lys Phe Ser Val Asn Val Asn Phe Lys Asn Cys Thr Val Trp Leu Phe
 35 40 45

<210> 93
 <211> 67
 <212> PRT
 <213> Homo sapien

<400> 93

63

Met Cys Met Ser Arg Phe Glu Ser Leu Gly Cys Arg Phe Val Leu Pro
1 5 10 15

Trp Gln Arg Lys Arg Ser Leu Trp Gly Gly Glu Leu Phe Leu Val Ile
20 25 30

Ser Gly Lys Arg His Ile Glu Thr Leu Tyr Glu Trp Gly Phe Cys Phe
35 40 45

Lys Cys Trp Lys Ile Arg Ala Gly Ile Thr Cys Leu Gln Val Val Pro
50 55 60

Ser Leu Val
65

<210> 94
<211> 145
<212> PRT
<213> Homo sapien

<400> 94

Met Leu Pro Ala Gly Thr Leu Val Gly Ala Gly Leu Gly Val Pro His
1 5 10 15

Pro Gln Thr Pro Cys Phe Leu Gln Gly His Trp Trp Val Leu Ala Trp
20 25 30

Gly Phe Leu Thr His Lys His His Ala Ser Cys Arg Asp Val Asp Gly
35 40 45

Arg Trp Pro Gly Arg Ser Ser His Thr Thr Ala Met Leu Pro Ala Gly
50 55 60

Thr Leu Val Gly Ala Gly Leu Gly Leu Pro His Ile Gln Thr Pro Cys
65 70 75 80

Phe Leu Gln Gly Arg Trp Cys Ala Leu Ala Trp Gly Phe Leu Thr Tyr
85 90 95

Lys Pro His Ala Ser Tyr Arg Ala Arg Trp Trp Thr Ala Gly Pro Glu
100 105 110

Ala Ser Ser His Thr Ile Ala Ile Leu Pro His Gly Thr Leu Ala Ala
115 120 125

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<400> 97

Met Leu Arg Arg Glu Ala Arg Leu Arg Arg Glu Tyr Leu Tyr Arg Lys
1 5 10 15

Ala Arg Glu Glu Ala Gln Arg Ser Ala Gln Glu Arg Lys Glu Arg Leu
20 25 30

Arg Arg Ala Leu Glu Glu Asn Arg Leu Ile Pro Thr Glu Leu Arg Arg
35 40 45

Glu Ala Leu Ala Leu Gln Gly Ser Leu Glu Phe Asp Asp Ala Gly Gly
50 55 60

Glu Gly Val Thr Ser His Val Asp Asp Glu Tyr Arg Trp Ala Gly Val
65 70 75 80

Glu Asp Pro Lys Val Met Ile Thr Thr Ser Arg Asp Pro Ser Ser Arg
85 90 95

Leu Lys Met Phe Ala Lys Glu Leu Lys Leu Val Phe Pro Gly Ala Gln
100 105 110

Arg Met Asn Arg Gly Arg His Glu Val Gly Ala Leu Val Arg Ala Cys
115 120 125

Lys Ala Asn Gly Val Thr Asp Leu Leu Val Val His Glu His Arg Gly
130 135 140

Thr Pro Val Gly Leu Ile Val Ser His Leu Pro Phe Gly Pro Thr Ala
145 150 155 160

Tyr Phe Thr Leu Cys Asn Val Val Met Arg His Asp Ile Pro Asp Leu
165 170 175

Gly Thr Met Ser Glu Ala Lys Pro His Leu Ile Thr His Gly Phe Ser
180 185 190

Ser Arg Leu Gly Lys Arg Val Ser Asp Ile Leu Arg Tyr Leu Phe Pro
195 200 205

Val Pro Lys Asp Asp Ser His Arg Val Ile Thr Phe Ala Asn Gln Asp
210 215 220

Asp Tyr Ile Ser Phe Arg His His Val Tyr Lys Lys Thr Asp His Arg

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66

225 230 235 240

Asn Val Glu Leu Thr Glu Val Gly Pro Arg Phe Glu Leu Lys Leu Tyr
245 250 255

Met Ile Arg Leu Gly Thr Leu Glu Gln Glu Ala Thr Ala Asp Val Glu
260 265 270

Trp Arg Trp His Pro Tyr Thr Asn Thr Ala Arg Lys Arg Val Phe Leu
275 280 285

Ser Thr Glu
290

<210> 98
<211> 39
<212> PRT
<213> Homo sapien

<400> 98

Met Ser Ile Arg Ala Trp Phe Pro Leu Ser Cys Arg Ala Ala His Val
1 5 10 15

Met Asp Pro Gly Arg Tyr Trp Thr Pro Gly Met Leu Thr Ala Thr Cys
20 25 30

Arg Gln Glu Thr Ser Val Gln
35

<210> 99
<211> 174
<212> PRT
<213> Homo sapien

<400> 99

Met Ser Phe Lys Arg Glu Gly Asp Asp Trp Ser Gln Leu Asn Val Leu
1 5 10 15

Lys Lys Arg Arg Val Gly Asp Leu Leu Ala Ser Tyr Ile Pro Glu Asp
20 25 30

Glu Ala Leu Met Leu Arg Asp Gly Arg Phe Ala Cys Ala Ile Cys Pro
35 40 45

His Arg Pro Val Leu Asp Thr Leu Ala Met Leu Thr Ala His Arg Ala
50 55 60

Gly Lys Lys His Leu Ser Ser Lys Leu Gly Gly Arg Arg Asp Gly Glu
65 70 75 80

Ala Thr Leu Glu Ile Ser Ala His His Ser Trp Cys Tyr Ala Phe Asn
85 90 95

Ser Val Ser Leu Ser Pro Gln Ala Leu Gln Leu Phe Tyr Gly Lys Lys
100 105 110

Gln Pro Gly Lys Glu Arg Lys Gln Asn Pro Lys His Gln Asn Glu Leu
115 120 125

Arg Arg Glu Glu Thr Lys Ala Glu Ala Pro Leu Leu Thr Gln Thr Arg
130 135 140

Leu Ile Thr Gln Ser Ala Leu His Arg Ala Pro His Tyr Asn Ser Cys
145 150 155 160

Cys Arg Arg Lys Tyr Arg Tyr Gly Thr Gly Lys Pro Glu Val
165 170

<210> 100

<211> 50

<212> PRT

<213> Homo sapien

<400> 100

Met Lys Tyr Pro Phe Ile Tyr Asn Tyr Phe Cys Leu Lys His Val Ser
1 5 10 15

Leu Tyr Ile Lys Asn Arg Tyr Phe Cys Phe His Phe Leu Ile Lys Phe
20 25 30

Cys Pro Tyr Phe Arg Ser Glu Lys Asn Gln Tyr Ser Asn Ile Lys Lys
35 40 45

Gln Glu
50

<210> 101

<211> 18

<212> PRT

<213> Homo sapien

<400> 101

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Met Glu Glu Ile Tyr Leu Val Thr Gly Lys Leu Val Ile Gln Ala Leu
 1 5 10 15

Glu Gly

<210> 102
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 102

Met Ser Ser Gln Asn Arg Arg Cys Leu Gly Arg Asn Arg Gly Trp Cys
 1 5 10 15

Leu Phe Ser Met Leu Ile Pro Tyr Pro Ser Asp Arg Ile Pro Phe Pro
 20 25 30

Glu Val

<210> 103
 <211> 40
 <212> PRT
 <213> Homo sapien

<400> 103

Met Asn Lys Gln Ile Tyr Cys Ser Ser Leu Lys Lys Phe Phe Phe Lys
 1 5 10 15

Gln Ser His Ser Val Ala Gln Ala Gly Val Lys Gln Cys Asp Leu Ser
 20 25 30

Ser Leu Gln Pro Pro Pro Pro Glu
 35 40

<210> 104
 <211> 990
 <212> PRT
 <213> Homo sapien

<400> 104

Met Ser Glu Glu Thr Arg Gln Ser Lys Leu Ala Ala Ala Lys Lys Lys
 1 5 10 15

Leu Arg Glu Tyr Gln Gln Arg Asn Ser Pro Gly Val Pro Thr Gly Ala

20

25

30

Lys Lys Lys Lys Lys Ile Lys Asn Gly Ser Asn Pro Glu Thr Thr Thr
 35 40 45

Ser Gly Gly Cys His Ser Pro Glu Asp Thr Pro Lys Asp Asn Ala Ala
 50 55 60

Thr Leu Gln Pro Ser Asp Asp Thr Val Leu Pro Gly Gly Val Pro Ser
 65 70 75 80

Pro Gly Ala Ser Leu Thr Ser Met Ala Ala Ser Gln Asn His Asp Ala
 85 90 95

Asp Asn Val Pro Asn Leu Met Asp Glu Thr Lys Thr Phe Ser Ser Thr
 100 105 110

Glu Ser Leu Arg Gln Leu Ser Gln Gln Leu Asn Gly Leu Val Cys Glu
 115 120 125

Ser Ala Thr Cys Val Asn Gly Glu Gly Pro Ala Ser Ser Ala Asn Leu
 130 135 140

Lys Asp Leu Glu Ser Arg Tyr Gln Gln Leu Ala Val Ala Leu Asp Ser
 145 150 155 160

Ser Tyr Val Thr Asn Lys Gln Leu Asn Ile Thr Ile Glu Lys Leu Lys
 165 170 175

Gln Gln Asn Gln Glu Ile Thr Asp Gln Leu Glu Glu Glu Lys Lys Glu
 180 185 190

Cys His Gln Lys Gln Gly Ala Leu Arg Glu Gln Leu Gln Val His Ile
 195 200 205

Gln Thr Ile Gly Ile Leu Val Ser Glu Lys Ala Glu Leu Gln Thr Ala
 210 215 220

Leu Ala His Thr Gln His Ala Ala Arg Gln Lys Glu Gly Glu Ser Glu
 225 230 235 240

Asp Leu Ala Ser Arg Leu Gln Tyr Ser Arg Arg Arg Val Gly Glu Leu
 245 250 255

Leu Ser Arg Leu Asn Arg Glu Gln Glu Glu Arg Leu Leu Glu Leu Glu
485 490 495

Arg Ala Ala Glu Leu Trp Gly Glu Gln Ala Glu Ala Arg Arg Gln Ile
500 505 510

Leu Glu Thr Met Gln Asn Asp Arg Thr Thr Ile Ser Arg Ala Leu Ser
515 520 525

Gln Asn Arg Glu Leu Lys Glu Gln Leu Ala Glu Leu Gln Ser Gly Phe
530 535 540

Val Lys Leu Thr Asn Glu Asn Met Glu Ile Thr Ser Ala Leu Gln Ser
545 550 555 560

Glu Gln His Val Lys Arg Glu Leu Gly Lys Lys Leu Gly Glu Leu Gln
565 570 575

Glu Lys Leu Ser Glu Leu Lys Glu Thr Val Glu Leu Lys Ser Gln Glu
580 585 590

Ala Gln Ser Leu Gln Gln Gln Arg Asp Gln Tyr Leu Gly His Leu Gln
595 600 605

Gln Tyr Val Ala Ala Tyr Gln Gln Leu Thr Ser Glu Lys Glu Val Leu
610 615 620

His Asn Gln Leu Leu Leu Gln Thr Gln Leu Val Asp Gln Leu Gln Gln
625 630 635 640

Gln Glu Ala Gln Gly Lys Ala Val Ala Glu Met Ala Arg Gln Glu Leu
645 650 655

Gln Glu Thr Gln Glu Arg Leu Glu Ala Ala Thr Gln Gln Asn Gln Gln
660 665 670

Leu Arg Ala Gln Leu Ser Leu Met Ala His Pro Gly Glu Gly Asp Gly
675 680 685

Leu Asp Arg Glu Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu Ala
690 695 700

Val Ala Val Pro Gln Pro Met Pro Ser Ile Pro Glu Asp Leu Glu Ser
705 710 715 720

Arg Glu Ala Met Val Ala Phe Phe Asn Ser Ala Val Ala Ser Ala Glu
725 730 735

Pro Arg Glu Arg Pro Gly Leu Gly Ser Asn Pro Cys Ile Pro Phe Phe

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975

<400> 105

<400> 106

Leu Gln Glu Ala Trp Gln Leu Tyr Val Arg Lys Pro Arg Pro Ala Pro
50 55 60

Thr Ser Val Pro Ala Gly Gln Ala Trp Thr Val Asn Gly
65 70 75

<210> 107
<211> 116
<212> PRT
<213> Homo sapien

<400> 107

Met Arg Gly Thr Pro Phe Leu Ser Cys Val Ala Cys Leu Val Cys Ala
1 5 10 15

Ser Thr Leu Leu Phe Leu Ser Leu Ser Ser Leu Lys Met Tyr Asn Lys
20 25 30

Ile Ser Phe Leu Ala Pro Arg Leu Ser Pro Pro Gln Asn Lys Lys Lys
35 40 45

Lys Lys Lys Lys Lys Asn Pro Phe Phe Phe Phe Phe Phe Phe Phe Leu
50 55 60

Phe Phe Phe Phe Phe Phe Phe Ala His Asn Lys Asn Leu Leu Gly Glu
65 70 75 80

Arg Trp Leu Met Gly Gly Lys Ile Trp Ile Gln Glu Ser Ser Ile Leu
85 90 95

Ala Leu Ala Leu Ser Pro Asn Pro Pro Ser Leu Pro Glu Pro Arg Gly
100 105 110

Val Ser Pro Cys
115

<210> 108
<211> 46
<212> PRT
<213> Homo sapien

<400> 108

Met Val Thr Leu Leu Phe Ser Glu Pro Leu Leu Arg Ala Ser Gln Asp
1 5 10 15

Ile Met Arg Thr Asp Asn Leu Pro Trp Ser Gln Arg Pro Ser Leu Pro
20 25 30

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Leu Ala Arg Met Phe Arg Asp Arg Gln Arg Gly Gln Trp Trp
 35 40 45

<210> 109
 <211> 55
 <212> PRT
 <213> Homo sapien

<400> 109

Met Trp Glu Leu Thr Glu Gln Tyr His His Arg Val Asn Lys Leu Trp
 1 5 10 15

Thr Lys Asp Lys Ala Gln Ser Phe Phe Phe Phe Phe Phe Phe Phe
 20 25 30

Arg Leu Ser Thr Leu Leu Ser Cys Pro Gln Ala Pro Arg Asn Ile Leu
 35 40 45

Ser Pro His Leu Glu Thr Asp
 50 55

<210> 110
 <211> 876
 <212> PRT
 <213> Homo sapien

<400> 110

Ala Ser Ala Gly Ala Ala Gly Ser Leu Thr Arg Ser Pro Ser Ser Asp
 1 5 10 15

Phe Gln Gly Ala Ser Val Glu Lys Lys Met Ala Gln Val Leu His Val
 20 25 30

Pro Ala Pro Phe Pro Gly Thr Pro Gly Pro Ala Ser Pro Pro Ala Phe
 35 40 45

Pro Ala Lys Asp Pro Asp Pro Pro Tyr Ser Val Glu Thr Pro Tyr Gly
 50 55 60

Tyr Arg Leu Asp Leu Asp Phe Leu Lys Tyr Val Asp Asp Ile Glu Lys
 65 70 75 80

Gly His Thr Leu Arg Arg Val Ala Val Gln Arg Arg Pro Arg Leu Ser
 85 90 95

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Ser Leu Pro Arg Gly Pro Gly Ser Trp Trp Thr Ser Thr Glu Ser Leu
 100 105 110

Cys Ser Asn Ala Ser Gly Asp Ser Arg His Ser Ala Tyr Ser Tyr Cys
 115 120 125

Gly Arg Gly Phe Tyr Pro Gln Tyr Gly Ala Leu Glu Thr Arg Gly Gly
 130 135 140

Phe Asn Pro Arg Val Glu Arg Thr Leu Leu Asp Ala Arg Arg Arg Leu
 145 150 155 160

Glu Asp Gln Ala Ala Thr Pro Thr Gly Leu Gly Ser Leu Thr Pro Ser
 165 170 175

Ala Ala Gly Ser Thr Ala Ser Leu Val Gly Val Gly Leu Pro Pro Pro
 180 185 190

Thr Pro Arg Ser Ser Gly Leu Ser Thr Pro Val Pro Pro Ser Ala Gly
 195 200 205

His Leu Ala His Val Arg Glu Gln Met Ala Gly Ala Leu Arg Lys Leu
 210 215 220

Arg Gln Leu Glu Glu Gln Val Lys Leu Ile Pro Val Leu Gln Val Lys
 225 230 235 240

Leu Ser Val Leu Gln Glu Glu Lys Arg Gln Leu Thr Val Gln Leu Lys
 245 250 255

Ser Gln Lys Phe Leu Gly His Pro Thr Ala Gly Arg Gly Arg Ser Glu
 260 265 270

Leu Cys Leu Asp Leu Pro Asp Pro Pro Glu Asp Pro Val Ala Leu Glu
 275 280 285

Thr Arg Ser Val Gly Thr Trp Val Arg Glu Arg Asp Leu Gly Met Pro
 290 295 300

Asp Gly Glu Ala Ala Leu Ala Ala Lys Val Ala Val Leu Glu Thr Gln
 305 310 315 320

Leu Lys Lys Ala Leu Gln Glu Leu Gln Ala Ala Gln Ala Arg Gln Ala
 325 330 335

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Asp Pro Gln Pro Gln Ala Trp Pro Pro Pro Asp Ser Pro Val Arg Val
340 345 350

Asp Thr Val Arg Val Val Glu Gly Pro Arg Glu Val Glu Val Val Ala
355 360 365

Ser Thr Ala Ala Gly Ala Pro Ala Gln Arg Ala Gln Ser Leu Glu Pro
370 375 380

Tyr Gly Thr Gly Leu Arg Ala Leu Ala Met Pro Gly Arg Pro Glu Ser
385 390 395 400

Pro Pro Val Phe Arg Ser Gln Glu Val Val Glu Thr Met Cys Pro Val
405 410 415

Pro Ala Ala Ala Thr Ser Asn Val His Met Val Lys Lys Ile Ser Ile
420 425 430

Thr Glu Arg Ser Cys Asp Gly Ala Ala Gly Leu Pro Glu Val Pro Ala
435 440 445

Glu Ser Ser Ser Ser Pro Pro Gly Ser Glu Val Ala Ser Leu Thr Gln
450 455 460

Pro Glu Lys Ser Thr Gly Arg Val Pro Thr Gln Glu Pro Thr His Arg
465 470 475 480

Glu Pro Thr Arg Gln Ala Ala Ser Gln Glu Ser Glu Glu Ala Gly Gly
485 490 495

Thr Gly Gly Pro Pro Ala Gly Val Arg Ser Ile Met Lys Arg Lys Glu
500 505 510

Glu Val Ala Asp Pro Thr Ala His Arg Arg Ser Leu Gln Phe Val Gly
515 520 525

Val Asn Gly Gly Tyr Glu Ser Ser Ser Glu Asp Ser Ser Thr Ala Glu
530 535 540

Asn Ile Ser Asp Asn Asp Ser Thr Glu Asn Glu Ala Pro Glu Pro Arg
545 550 555 560

Glu Arg Val Pro Ser Val Ala Glu Ala Pro Gln Leu Arg Pro Ala Gly
565 570 575

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Thr Ala Ala Ala Lys Thr Ser Arg Gln Glu Cys Gln Leu Ser Arg Glu
580 585 590

Ser Gln His Ile Pro Thr Ala Glu Gly Ala Ser Gly Ser Asn Thr Glu
595 600 605

Glu Glu Ile Arg Met Glu Leu Ser Pro Asp Leu Ile Ser Ala Cys Leu
610 615 620

Ala Leu Glu Lys Tyr Leu Asp Asn Pro Asn Ala Leu Thr Glu Arg Glu
625 630 635 640

Leu Lys Val Ala Tyr Thr Thr Val Leu Gln Glu Trp Leu Arg Leu Ala
645 650 655

Cys Arg Ser Asp Ala His Pro Glu Leu Val Arg Arg His Leu Val Thr
660 665 670

Phe Arg Ala Met Ser Ala Arg Leu Leu Asp Tyr Val Val Asn Ile Ala
675 680 685

Asp Ser Asn Gly Asn Thr Ala Leu His Tyr Ser Val Ser His Ala Asn
690 695 700

Phe Pro Val Val Gln Gln Leu Leu Asp Ser Gly Val Cys Lys Val Asp
705 710 715 720

Lys Gln Asn Arg Ala Gly Tyr Ser Pro Ile Met Leu Thr Ala Leu Ala
725 730 735

Thr Leu Lys Thr Gln Asp Asp Ile Glu Thr Val Leu Gln Leu Phe Arg
740 745 750

Leu Gly Asn Ile Asn Ala Lys Ala Ser Gln Ala Gly Gln Thr Ala Leu
755 760 765

Met Leu Ala Val Ser His Gly Arg Val Asp Val Val Lys Ala Leu Leu
770 775 780

Ala Cys Glu Ala Asp Val Asn Val Gln Asp Asp Asp Gly Ser Thr Ala
785 790 795 800

Leu Met Cys Ala Cys Glu His Gly His Lys Glu Ile Ala Gly Leu Leu

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Leu Ala Val Pro Ser Cys Asp Ile Ser Leu Thr Asp Arg Asp Gly Ser
 820 825 830

Thr Ala Leu Met Val Ala Leu Asp Ala Gly Gln Ser Glu Ile Ala Ser
 835 840 845

Met Leu Tyr Ser Arg Met Asn Ile Lys Cys Ser Phe Ala Pro Met Ser
 850 855 860

Asp Asp Glu Ser Pro Thr Ser Ser Ser Ala Glu Glu
 865 870 875

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